BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

Premeasurement

Name of work: Improvements to Roads, Drains and other Development works in Thindlu Colony Main roads, Cross roads and surrounding area in Ward No. 09 (Vidyaranyapura).

Estimated Cost : Rs. 98.50 Lakhs

Head of Account : P-1878

Name of Agency: Executive engineer, Karnataka Rural Infrastructure Development Limited, # 280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajainagara, Bangalore - 10.

Work order No: BBMP/EE/BTP/WO/188/2019-20 Dated: 13.01.2020.

SL. No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quntity	Unit
			meters	meters	meters	meters	meters		
	Measurements Recarded on :								
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	Desilting of Drains								
	Thindlu Old Village AK Colony Main Road N/S	1	12.00			0.90	0.90	9.72	
		1	12.50			0.90	0.90	10.13	
		1	11.50			0.90	0.90	9.32	
		1	14.50			0.90	0.90	11.75	
		1	12.80			0.90	0.90	10.37	
		1	13.80			0.90	0.90	11.18	
		1	11.00			0.90	0.90	8.91	
	S/S	1	13.00			0.90	0.90	10.53	
		1	12.00			0.90	0.90	9.72	
		1	12.00			0.90	0.90	9.72	
		1	14.40			0.90	0.90	11.66	
		1	12.90			0.90	0.90	10.45	
		1	13.50			0.90	0.90	10.94	
		1	12.40			0.90	0.90	10.04	
		1	15.80			0.90	0.90	12.80	
	Towards GKVK Double Road E/S	1	30.00			0.90	0.90	24.30	
		1	11.50			0.90	0.90	9.32	
	Towards GKVK Double Road W/S	1	30.00			0.90	0.90	24.30	
		1	11.50			0.90	0.90	9.32	
	N/S Cross Roads 1	1	13.50			0.90	0.90	10.94	
	N/S Cross Roads 2	1	28.80			0.90	0.90	23.33	
	N/S Cross Roads 3	1	39.80			0.90	0.90	32.24	
	N/S Cross Roads 4	1	28.60			0.90	0.90	23.17	
	N/S Cross Roads 5	1	16.50			0.90	0.90	13.37	
	N/S Cross Roads 6	1	32.20			0.90	0.90	26.08	
	N/S Cross Roads 7	1	29.10			0.90	0.90	23.57	
	N/S Cross Roads 8	1	21.40			0.90	0.90	17.33	
	N/S Cross Roads 9	1	19.00			0.90	0.90	15.39	
	Main Road	1	30.00			0.90	0.90	24.30	
		1	30.00			0.90	0.90	24.30	
		1	9.20			0.90	0.90	7.45	
	S/S Cross Roads 1	1	17.50			0.90	0.90	14.18	
	S/S Cross Roads 2	1	18.00			0.90	0.90	14.58	

SL. No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quntity	Unit
			meters	meters	meters	meters	meters		
	S/S Cross Roads 3	1	19.10			0.90	0.90	15.47	
	S/S Cross Roads 4	1	28.00			0.90	0.90	22.68	
	S/S Cross Roads 5	1	28.40			0.90	0.90	23.00	
	S/S Cross Roads 6	1	20.20			0.90	0.90	16.36	
	S/S Cross Roads 7	1	19.80			0.90	0.90	16.04	
	S/S Cross Roads 8	1	29.20			0.90	0.90	23.65	
	S/S Cross Roads 9	1	27.50			1.00	1.00	27.50	
		1	20.10			1.20	0.90	21.71	
	Culverts								
	N/S Cross Roads 1	1	3.20			1.20	1.20	4.61	
	N/S Cross Roads 2	1	3.00			1.20	1.20	4.32	
	N/S Cross Roads 3	1	3.20			1.20	1.20	4.61	
	N/S Cross Roads 4	1	2.40			1.20	1.20	3.46	
	N/S Cross Roads 5	1	3.00			1.20	1.20	4.32	
	N/S Cross Roads 6	1	3.20			1.20	1.20	4.61	
	S/S Cross Roads 1	1	5.20			1.20	1.20	7.49	
	S/S Cross Roads 2	1	3.20			1.20	1.20	4.61	
	S/S Cross Roads 3	1	3.00			1.20	1.20	4.32	
	S/S Cross Roads 4	1	2.40			1.20	1.20	3.46	
	S/S Cross Roads 5	1	3.10			1.20	1.20	4.46	
	S/S Cross Roads 6	1	2.30			1.20	1.20	3.31	
	S/S Cross Roads 7	1	3.20			1.20	1.20	4.61	
	S/S Cross Roads 8	1	2.80			1.20	1.20	4.03	
	S/S Cross Roads 9	1	2.00			1.20	1.20	2.88	
		1	2.40			1.20	1.20	3.46	
		1	9.00			1.20	1.20	12.96	
	Cross road	2	30.00			1.10	0.95	62.70	
		1	3.00			1.10	0.95	3.14	
	Cross road	2	30.00			1.10	0.95	62.70	
		1	6.00			1.10	0.95	6.27	
	Aswathkatte Surroundings	1	26.00			4.00	0.15	15.60	
		1	16.00			4.00	0.15	9.60	
	Desilting of Drain	1	30.00			0.45	0.30	4.05	
		1	30.00			0.45	0.30	4.05	
		1	25.00			0.45	0.30	3.38	
							Total Qty =	**914.07**	
							Qty Limited to =	**891.38**	Cum

Assistant Engineer 16/01/2020

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quntity	Unit
			meters	meters	meters	meters	meters		
	Measurements Recarded on :								
2	Plain / Reinforced Cement Concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100								Cum
	Bottom Concrete								
	Thindlu Old Village AK Colony Main Road N/S	1	12.00			0.90	0.15	1.62	
		1	12.50			0.90	0.15	1.69	
		1	11.50			0.90	0.15	1.55	
		1	14.50			0.90	0.15	1.96	
		1	12.80			0.90	0.15	1.73	
		1	13.80			0.90	0.15	1.86	
		1	11.00			0.90	0.15	1.49	
	S/S	1	13.00			0.90	0.15	1.76	
		1	12.00			0.90	0.15	1.62	
		1	12.00			0.90	0.15	1.62	
		1	14.40			0.90	0.15	1.94	
		1	12.90			0.90	0.15	1.74	
		1	13.50			0.90	0.15	1.82	
		1	12.40			0.90	0.15	1.67	
		1	15.80			0.90	0.15	2.13	
	Towards GKVK Double Road E/S	1	30.00			0.90	0.15	4.05	
		1	11.50			0.90	0.15	1.55	
	Towards GKVK Double Road W/S	1	30.00			0.90	0.15	4.05	
		1	11.50			0.90	0.15	1.55	
	N/S Cross Roads 1	1	13.50			0.90	0.15	1.82	
	N/S Cross Roads 2	1	28.80			0.90	0.15	3.89	
	N/S Cross Roads 3	1	39.80			0.90	0.15	5.37	
	N/S Cross Roads 4	1	28.60			0.90	0.15	3.86	
	N/S Cross Roads 5	1	16.50			0.90	0.15	2.23	
	N/S Cross Roads 6	1	32.20			0.90	0.15	4.35	
	N/S Cross Roads 7	1	29.10			0.90	0.15	3.93	
	N/S Cross Roads 8	1	21.40			0.90	0.15	2.89	
	N/S Cross Roads 9	1	19.00			0.90	0.15	2.57	
	Main Road	1	30.00			0.90	0.15	4.05	
		1	30.00			0.90	0.15	4.05	
		1	9.20			0.90	0.15	1.24	
	S/S Cross Roads 1	1	17.50			0.90	0.15	2.36	
	S/S Cross Roads 2	1	18.00			0.90	0.15	2.43	
	S/S Cross Roads 3	1	19.10			0.90	0.15	2.58	
	S/S Cross Roads 4	1	28.00			0.90	0.15	3.78	
	S/S Cross Roads 5	1	28.40			0.90	0.15	3.83	
	S/S Cross Roads 6	1	20.20			0.90	0.15	2.73	
	S/S Cross Roads 7	1	19.80			0.90	0.15	2.67	
	S/S Cross Roads 8	1	29.20			0.90	0.15	3.94	
	S/S Cross Roads 9	1	27.50			1.00	0.15	4.13	
		1	20.10			1.30	0.15	3.92	
	Culverts								
	N/S Cross Roads 1	1	3.20			1.20	0.15	0.58	
	N/S Cross Roads 2	1	3.00			1.20	0.15	0.54	
	N/S Cross Roads 3	1	3.20			1.20	0.15	0.58	
	N/S Cross Roads 4	1	2.40			1.20	0.15	0.43	
	N/S Cross Roads 5	1	3.00			1.20	0.15	0.54	
	N/S Cross Roads 6	1	3.20			1.20	0.15	0.58	
	S/S Cross Roads 1	1	5.20			1.20	0.15	0.94	
	S/S Cross Roads 2	1	3.20			1.20	0.15	0.58	
	S/S Cross Roads 3	1	3.00			1.20	0.15	0.54	
	S/S Cross Roads 4	1	2.40			1.20	0.15	0.43	
	S/S Cross Roads 5	1	3.10			1.20	0.15	0.56	

Assistant Executive Engineer
Vidyaranyapura Sub Division

SL. No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quntity	Unit
			meters	meters	meters	meters	meters		
	S/S Cross Roads 6	1	2.30			1.20	0.15	0.41	
	S/S Cross Roads 7	1	3.20			1.20	0.15	0.58	
	S/S Cross Roads 8	1	2.80			1.20	0.15	0.50	
	S/S Cross Roads 9	1	2.00			1.20	0.15	0.36	
		1	2.40			1.20	0.15	0.43	
		1	9.00			1.20	0.15	1.62	
	Aswathkatte Surroundings	1	6.70			5.60	0.15	5.63	
		1	16.00			5.00	0.15	12.00	
		1	6.70			5.60	0.15	5.63	
	Cross road	2	30.00			1.10	0.15	9.90	
		1	3.00			1.10	0.15	0.50	
	Cross road	2	30.00			1.10	0.15	9.90	
		1	6.00			1.10	0.15	0.99	
							Total Qty =	**164.75**	
							Qty Limited to =	**158.37**	Sqm

18/01/2020
Assistant Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quntity	Unit
			meters	meters	meters	meters	meters		
	Measurements Recarded on :								
4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500								Tonne
	Main Road N/S 10 mm dia		964	2.20	2120.80	0.62	1314.90		
	8 mm dia		20	106.00	2120.00	0.39	826.80		
	Main Road S/S 10 mm dia		1211	2.20	2664.20	0.62	1651.80		
	8 mm dia		20	133.20	2664.00	0.39	1038.96		
	Main Road 10 mm dia		630	2.20	1386.00	0.62	859.32		
	8 mm dia		20	69.20	1384.00	0.39	539.76		
	Towards GKVK Double Road E/S 10 mm dia		378	2.20	831.60	0.62	515.59		
	8 mm dia		20	41.50	830.00	0.39	323.70		
	Towards GKVK Double Road W/S 10 mm dia		378	2.20	831.60	0.62	515.59		
	8 mm dia		20	41.50	830.00	0.39	323.70		
	1st Cross N/S 10 mm dia		151	2.20	332.20	0.62	205.96		
	8 mm dia		20	13.50	270.00	0.39	105.30		
	2nd Cross N/S 10 mm dia		321	2.20	706.20	0.62	437.84		
	8 mm dia		20	28.80	576.00	0.39	224.64		
	3rd Cross N/S 10 mm dia		443	2.20	974.60	0.62	604.25		
	8 mm dia		20	39.80	796.00	0.39	310.44		
	4th Cross N/S 10 mm dia		318	2.20	699.60	0.62	433.75		
	8 mm dia		20	28.60	572.00	0.39	223.08		
	5th Cross N/S 10 mm dia		184	2.20	404.80	0.62	250.98		
	8 mm dia		20	16.50	330.00	0.39	128.70		
	6th Cross N/S 10 mm dia		358	2.20	787.60	0.62	488.31		
	8 mm dia		20	32.20	644.00	0.39	251.16		
	7th Cross N/S 10 mm dia		324	2.20	712.80	0.62	441.94		
	8 mm dia		20	29.10	582.00	0.39	226.98		
	8th Cross N/S 10 mm dia		238	2.20	523.60	0.62	324.63		
	8 mm dia		20	21.40	428.00	0.39	166.92		
	9th Cross N/S 10 mm dia		212	2.20	466.40	0.62	289.17		
	8 mm dia		20	19.00	380.00	0.39	148.20		
	1st Cross S/S 10 mm dia		195	2.20	429.00	0.62	265.98		
	8 mm dia		20	17.50	350.00	0.39	136.50		
	2nd Cross S/S 10 mm dia		201	2.20	442.20	0.62	274.16		
	8 mm dia		20	18.00	360.00	0.39	140.40		
	3rd Cross S/S 12 mm dia		213	2.20	468.60	0.89	417.05		
	10 mm dia		20	19.10	382.00	0.62	236.84		
	4th Cross S/S 12 mm dia		312	2.20	686.40	0.89	610.90		
	10 mm dia		20	28.00	560.00	0.62	347.20		
	5th Cross S/S 12 mm dia		326	2.20	717.20	0.89	638.31		
	10 mm dia		20	28.40	568.00	0.62	352.16		
	6th Cross S/S 12 mm dia		238	2.20	523.60	0.89	466.00		
	10 mm dia		20	20.20	404.00	0.62	250.48		
	7th Cross S/S 10 mm dia		221	2.20	486.20	0.62	301.44		
	8 mm dia		20	19.80	396.00	0.39	154.44		
	8th Cross S/S 10 mm dia		325	2.20	715.00	0.62	443.30		
	8 mm dia		20	29.20	584.00	0.39	227.76		
	9th Cross S/S 10 mm dia		306	2.20	673.20	0.62	417.38		
	8 mm dia		20	27.50	550.00	0.39	214.50		
	10 mm dia		238	2.20	523.60	0.62	324.63		
	8 mm dia		20	20.10	402.00	0.39	156.78		
	Culverts								
	1st Cross N/S 12 mm dia		72	2.40	172.80	0.89	153.79		
	10 mm dia		22	3.20	70.40	0.62	43.65		
	2nd Cross N/S 12 mm dia		67	2.40	160.80	0.89	143.11		

Assistant Executive Engineer
Vidyaranyapura Sub Division

SL. No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quntity	Unit
			meters	meters	meters	meters	meters		
	10 mm dia		22	3.00	66.00	0.62	40.92		
	3rd Cross N/S 12 mm dia		72	2.40	172.80	0.89	153.79		
	10 mm dia		22	3.20	70.40	0.62	43.65		
	4th Cross N/S 12 mm dia		54	2.40	129.60	0.89	115.34		
	10 mm dia		22	2.40	52.80	0.62	32.74		
	5th Cross N/S 12 mm dia		67	2.40	160.80	0.89	143.11		
	10 mm dia		22	3.00	66.00	0.62	40.92		
	6th Cross N/S 12 mm dia		72	2.40	172.80	0.89	153.79		
	10 mm dia		22	3.20	70.40	0.62	43.65		
	7th Cross N/S 12 mm dia		135	2.40	324.00	0.89	288.36		
	10 mm dia		22	5.20	114.40	0.62	70.93		
	8th Cross N/S 12 mm dia		72	2.40	172.80	0.89	153.79		
	10 mm dia		22	3.20	70.40	0.62	43.65		
	9th Cross N/S 12 mm dia		67	2.40	160.80	0.89	143.11		
	10 mm dia		22	3.00	66.00	0.62	40.92		
	1st Cross S/S 12 mm dia		54	2.40	129.60	0.89	115.34		
	10 mm dia		22	2.40	52.80	0.62	32.74		
	2nd Cross S/S 12 mm dia		69	2.40	165.60	0.89	147.38		
	10 mm dia		22	3.10	68.20	0.62	42.28		
	3rd Cross S/S 12 mm dia		52	2.40	124.80	0.89	111.07		
	10 mm dia		22	2.30	50.60	0.62	31.37		
	4th Cross S/S 12 mm dia		72	2.40	172.80	0.89	153.79		
	10 mm dia		22	3.20	70.40	0.62	43.65		
	5th Cross S/S 12 mm dia		63	2.40	151.20	0.89	134.57		
	10 mm dia		22	2.80	61.60	0.62	38.19		
	6th Cross S/S 12 mm dia		45	2.40	108.00	0.89	96.12		
	10 mm dia		22	2.00	44.00	0.62	27.28		
	7th Cross S/S 12 mm dia		54	2.40	129.60	0.89	115.34		
	10 mm dia		22	2.40	52.80	0.62	32.74		
	8th Cross S/S 12 mm dia		222	2.40	532.80	0.89	474.19		
	10 mm dia		22	9.00	198.00	0.62	122.76		
							23116.65		
							23.12		
							Total Qty =	**23.10**	

Assistant Engineer 29/01/2020

Assistant Executive Engineer
Vidyaranyapura Sub Division,

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97